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PATENT



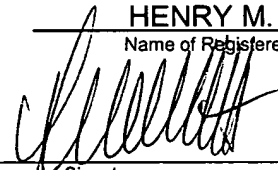
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: KNAUFF-4

In re Application of:)	
AXEL KNAUFF)	
Appl. No.: 10/603,480)	
Filed: June 25, 2003)	Group Art Unit: 3743
For: ARRANGEMENT FOR MAINTAINING A)	
MACHINE ELEMENT AT A CONTROLLED)	
TEMPERATURE IN ELECTRICALLY)	
OPERATED PRODUCTION MACHINES)	

SECOND INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450", on <u>September 15, 2004.</u>	
(Date)	
<u>HENRY M. FEIEREISEN</u>	
Name of Registered Representative	
	<u>9-15-2004</u>
Signature	Date of Signature

S I R:

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of the Examiner to the following references A) to G) which were cited in an office action issued by the German Patent Office with regard to the corresponding German patent application No. 102 28 831.3. Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

	Country:	Patent or Appl. No:	Patentee or Applicant:	Issue or Filing Date:
A)	Germany	DE 197 04 408 A1	Scholz et al.	08-13-1998
B)	Germany	DE 100 43 059 A1	Csicser et al.	03-28-2002
C)	Germany	954 818	Aigner	11-29-1956
D)	Germany	DE 30 31 425 A1	Kleinhans	04-01-1982
E)	Germany	DE 34 27 758 A1	Perner	01-30-1986
F)	Germany	DE 31 03 508 C2	Brocks et al.	05-07-1986
G)	Germany	DE 43 34 134 A1	Müssler	04-13-1995

Copies of these references are submitted herewith along with form PTO-1449. The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

☐ This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under 1.53(d), so that no fee under 37 C.F.R. §1.97 is due.

☐ This Information Disclosure Statement is filed within three months of the date of entry of the national stage as set forth in 1.491 in an international application, so that no fee under 37 C.F.R. §1.97 is due.

☒ This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.

☐ This Information Disclosure Statement is filed before the mailing of a first Office Action after the filing of a request for continued examination under §1.114, so that no fee under 37 C.F.R. §1.97 is due.

☐ This Information Disclosure Statement is filed after the issuance of a first office but before issuance of a final action under §1.113, or a notice of allowance under §1.311.

☐ This Information Disclosure Statement is submitted after the mailing of a final action or a notice of allowance, but before payment of the issue fee.

☐ The undersigned submits the following statement requesting consideration of this statement:

The undersigned hereby states:

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement;

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

☐ The fee of \$180.00 set forth in 1.17(p).

☐ The Commissioner is hereby authorized to charge the fee as set forth in 1.17(p), and any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

[X] The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

In order to satisfy the requirement under 37 C.F.R. §1.98(a)(3) for a concise explanation of the relevance of each item of information, applicant notes with respect to any information that is not in English language as follows:

Reference A) describes a method for heat recovery from engineering, automated processes (Pr1, Pr2,,Prn), which have one or more heat sources for waste heat (PL) and which is carried out across one or more heat transfers (3). The lost power (PL) as the heat source is used producing an electric drive system (EDS). Its cooling medium (6, fig. 2) or other heat carrier is supplied directly after its application in the electric drive system (EDS) to the heat exchanger (s) and/or bridges which are coupled and/or integrated with the heat user or users of the adjacent process (NPr1,... NPrN). The electric drive system (EDS) is penetrated and/or is acted on by a closed cooling medium circuit. The electric drive system (EDS) has one or more electric motors with a cooled stator and rotor. The cooling medium for cooling the stator at least is supplied to the heat exchanger or heat exchangers.

Reference B) describes a selectively activatable arrangement provided for raising the stator power loss. The arrangement provided has a multi-phase stator winding (23), which includes at least two parallel branches (231,231'; 232,232',) per phase, and switching units, which in each phase selectively switches the at

least one branch (232,232') in parallel to the other branch (231,231') or separates from the other branch.

Reference C) describes a device for exploiting loss heat of electric machines and assemblies by means of a heat pump, whereby the compressor output is controlled in dependence on the average winding temperature or temperature of the hottest point of the winding by means of a thermal image reflecting the temperature of the winding.

Reference D) describes an arrangement for cooling an electric machine, whereby water circulates in a closed cooling circuit (4) and flows through a heat exchanger (7) which accommodates a closed, single-stage or multi-stage conventional heat pump circuit (9) consisting of evaporator (8), compressor (10), condenser (11) and throttle (12). The condenser is disposed in a further heat exchanger (13) which supplies with its external circuit a consumer.

Reference E) describes a hydraulic circuit branch of a cooling system in thermal contact with the stator winding of a hydraulic power generator provided with a feed tube divided into two separate input tube sections. The downstream ends of the input tube sections are connected to respective multiplicities of subsidiary hydraulic circuit branches in the form of winding bars via a pair of semicircular manifolds. The current throughput through the winding bars is monitored by determining the difference between the rates of coolant flow through the approximately identical input tube sections. If the rates of coolant flow or throughputs in the input tube sections differ from one another by an amount which itself differs from a predetermined reference value by more than a preselected

threshold, a warning signal is generated indicating that heat removal from the hydraulic power generator is being impaired.

Reference F) describes an electric motor drive, especially a compressor drive for heat pumps, at least the sealed housing internal space containing the stator winding which is filled with a heat-carrier fluid and is connected in a circulation path for the heat-carrier fluid, by means of associated inlets and an outlet. A heat exchanger, which is connected in an external heat circuit, is arranged in a housing end region through which the heat-carrier fluid flows and which has the fluid outlet. The heat produced in the drive is in this way dissipated directly via the heat-carrier fluid and is passed to the heat exchanger so that this exhaust heat can be transferred directly into an external heat circuit, for example into the circuit of a heat pump. The heat exchanger is expediently constructed as a heat exchanger tube which is arranged in a housing cover and is wound in a spiral shape, and the inlet and outlet of this heat exchanger tube are arranged in such a manner that the heat-carrier fluid flows radially to the heat exchanger tube and said heat exchanger tube in consequence acts in opposing flow.

Reference G describes an injection-molding machine in which at least the injection unit can be actuated by liquid-cooled electric servo-motors and in which each servo-motor is assigned its own power and activation electronics or servo-unit 50a, 50b...50f, 50g with liquid-cooling system, and in which the liquid-cooling system has at least one cooling circuit.

The above-identified application discloses and claims an invention patentable over this prior art.

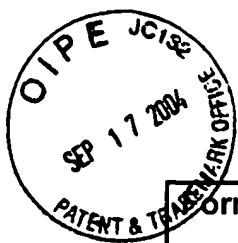
Entry of the references above set forth into the file of the above application
is believed to be in order and is respectfully requested.

Respectfully submitted

By: 

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Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

INFORMATION DISCLOSURE CITATION

Attorney's Docket No. KNAUFF-4	Applicant Axel Knauff	Appl. No. 10/603,480
Filing Date June 25, 2003	Group 3743	Examiner

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date, if appropriate

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation
DE19704408 A1	08-13-1998	Germany			No
DE10043059 A1	03-28-2002	Germany			No
954 818	11-29-1956	Germany			No
DE3031425 A1	04-01-1982	Germany			No
DE3427758 A1	01-30-1986	Germany			No
DE3103508 C2	05-07-1986	Germany			No
DE4334134 A1	04-13-1995	Germany			No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner:	Date considered:
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*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.